AMENDMENTS TO THE CLAIMS

This listing of the claims replaces all prior versions and listings of claims in the application:

Listing of Claims

(Currently Amended) An A spinal fixation assembly including a longitudinal member positionable along a spinal column, the assembly comprising:

 a connecting member configured and dimensioned for receiving a portion of the longitudinal member;

a fastener including a lower portion for contacting a bone and an upper portion with a longitudinal axis extending therethrough, the upper portion having two substantially semicircular grooves, wherein each groove is configured and dimensioned for receiving a portion of the connecting member in a lateral direction with respect to the longitudinal axis; and

an attachment member positionable on the fastener that at least partially covers the channel groove that receives the connecting member, and is configured and dimensioned for receiving a further portion of the connecting member along its circumference and securing the connecting member to the fastener.

- 2. (Original) The assembly of claim 1, wherein the connecting member comprises a shaft having first and second ends, the first end having a hook with an inner surface of concave shape, the inner surface configured and dimensioned to receive the longitudinal member in a position spaced from the attachment member.
- 3. (Original) The assembly of claim 2, wherein the hook has a bore extending from an outer surface to the inner surface.

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- 4. (Original) The assembly of claim 3, wherein the bore is configured and dimensioned to receive a set screw for pinning the longitudinal member to the inner surface of the hook.
- 5. (Original) The assembly of claim 2, wherein the second end of the shaft has a textured surface for engaging the attachment member.
- 6. (Original) The assembly of claim 5, wherein the textured surface comprises ridges.
- 7. (Original) The assembly of claim 6, wherein the ridges are arranged about the circumference of the connecting member.
- 8. (Original) The assembly of claim 5, wherein the ridges interlock with serrations on the attachment member to prevent rotation of the shaft with respect to the attachment member.
- 9. (Original) The assembly of claim 1, wherein the fastener has a longitudinal axis extending from a proximal end to a distal end and lying in a central plane, and the two grooves are disposed on opposite sides of the central plane.
- 10. (Original) The assembly of claim 9, wherein the two grooves extend orthogonally with respect to the longitudinal axis and are equidistant from the proximal end of the fastener.
- 11. (Original) The assembly of claim 10, wherein the upper portion has a bore positioned transversely to the longitudinal axis and between the two grooves.
- 12. (Original) The assembly of claim 9, wherein the attachment member comprises:

a cylinder having upper, lower and side surfaces with a bore extending through the upper and lower surfaces and defining a longitudinal axis lying in a central plane; a slot extending through the cylinder offset from the central plane and parallel with the central plane; and

a protrusion extending from the bottom surface on an opposite side of the central plane from the slot.

- 13. (Currently Amended) The assembly of claim 12, wherein <u>each of</u> the <u>two</u> grooves <u>define</u> a seat for accepting the protrusion of the attachment member.
- 14. (Original) The assembly of claim 12, wherein the slot includes serrations along the inner surface.
- 15. (Original) The assembly of claim 12, wherein the slot has an eccentric cross-sectional shape.
- 16. (Original) The assembly of claim 12, wherein the slot has a generally cylindrical cross-section with a geometry substantially conforming to a diameter of the connecting member.
- 17. (Original) The assembly of claim 1, wherein the lower portion comprises a threaded end for engaging a vertebra.
- 18. (Original) The assembly of claim 1, wherein the upper portion comprises a shaft having external threads to accept the locking member.
- 19. (Original) The assembly of claim 1, wherein the lower portion comprises a hook and includes an arcuate portion and a flat portion for facilitating implantation of the fastener.
- 20. (Original) The assembly of claim 19, wherein the arcuate portion has a dimple on a posterior surface.

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- 21. (Original) A spinal fixation system comprising at least one longitudinal member and the assembly of claim 1.
- 22. (Currently Amended) A connector for securing a longitudinal member to a fastener assembly of a spinal fixation system comprising:

a shaft having a longitudinal axis and first and second ends,

the first end having a hook with inner and outer surfaces, the inner surface having a concave shape and configured and dimensioned, the hook having an opening opposite the inner surface to receive the longitudinal member in a position laterally displaced from the fastener assembly, the hook being configured to secure the longitudinal member to the inner surface while maintaining the opening, and

the second end having a circumference and ridges around the circumference for engaging the fastener assembly, wherein the ridges are configured and dimensioned to interlock with a portion of the fastener assembly to prevent rotation of the shaft relative to the fastener assembly.

23. (Original) The connector of claim 22, wherein the hook has a bore extending from the outer surface to the inner surface, the bore configured and dimensioned to receive a set screw for pinning the longitudinal member to the inner surface of the hook.